

them all, as if they were *Currants* or *Goos-berries*, so thick as hedges; whereby one man may gather as many of them, as otherwise, when they are planted in trees at distance, four persons may do. Expedient is the benefit of this Trade. Having discoursed of this new way to all here; they are generally inclinable to it; considering that the Planting their Trees, as before, at distance, and letting them grow high, has been the main obstruction of that work hitherto, and the loss of their time and gain: but being in hedges, they will be always young tender plants; and consequently will be easily cut in great quantites with a pair of Garden Sizzers. But there may be suggested yet another, and perhaps a better way; which is, to sowe some Acres with *Mulberry seed*, and to cut it with a sith, and ever to keep it under. I have also bethought my self of a new way, for a few hands to serve many Worms, and that more cleanly than before: which also will be a means, without more trouble or pains, to separate unhealthy worms from healthful; and by which a great many more may be kept in a room, than otherwise upon shelves, as is usual here. Besides this, I have sown a little *French Barley* and *Rice seed*, and am thinking on a way of un-husking them with expedition, and so preparing them for the Merchant, as they use to be: But if you can inform me, how they are prepared, you may save me some labour. If I had any *Coffee* in husks, or any other vegetable commodity, from the Streights to try, I would here make trial with them. Its like, that some of those Merchants that are of your *Society*, and keep a Correspondency there, may assist in procuring them. By the latter ships I intend to send you a New sort of sweet sented *Tobacco*, which I have not yet had time to improve.

A Method, by which a Glasse of a small Plano-convex Sphere may be made to refract the Rayes of light to a Focus of a far greater distance, than is usual.

This is proposed by Mr. *Hook*, in consequence of what was
men-

mention'd from him in *Numb. 4 pag. 67*, of these *Transaffi-
ons*.

Prepare (*saitb he*) two Glasses, the one exactly flat on both sides, the other flat on the one side, and convex on the other, of what Sphere you please. Let the flat Glas be a little broader than the other. Then let there be made a Cell or Ring of Brass, very exactly turn'd, into which these two Glasses may be so fastned with Cement, that the plain surfaces of them may lye exactly paralell, and that the Convex-side of the Plano-convex-Glas may lye inward ; but so, as not to touch the flat of the other Glas. These being cemented into the Ring very closely about the edges, by a small hole in the side of the Brass-ring or Cell, fill the interposed space between these two with *Water, Oyl of Turpentine, Spirit of Wine, Saline Liquors, &c* ; then stop the hole with a screw: and according to the differing refraction of the interposed Liquors, so shall the *Focus* of this compound Glas be longer or shorter.

But this (adds the *Proposer*) I would only have look't upon, as one instance of many (for there may be others) of the *Possibility* of making a Glas, ground in a smaller Sphere, to constitute a Telescope of a much greater length: Though (not to raise too great expectation) I must add, That of *Spherical* object glasses, those are the best, which are made of the greatest Sphere, and whose substance hath the greatest refraction.

Observations About Shining Worms in Oysters.

These Observations occur in the *French journal* of April 12. 1666. in two letters, written by M. *Auzout* to M. *Dela Voye*; whereof the substance may be reduced to the following particulars.

1. That M. *Dela Voye* having observed, as he thought,
some